

Title (en)

Method of making fluorine/boron doped silica tubes

Title (de)

Verfahren zum Herstellen von mit Bor- und Fluor-dotierten Silicaglasrohren

Title (fr)

Procédé de fabrication de tubes en verre de silice dopé par le bore et le fluor

Publication

**EP 0547335 B1 19970108 (EN)**

Application

**EP 92118052 A 19921022**

Priority

US 80969791 A 19911216

Abstract (en)

[origin: CA2083528A1] Disclosed is a method of forming a glass tube doped with boron and fluorine. A B<sub>2</sub>O<sub>3</sub>-doped tubular porous preform is heated, and a fluorine-containing gas is flowed into its aperture. The temperature is sufficiently high to cause the fluorine-containing gas to decompose and form fluorine which dopes the preform. Also flowed into the aperture is a sufficient amount of BF<sub>3</sub> to prevent fluorine from reacting with the B<sub>2</sub>O<sub>3</sub> in the porous preform and forming a B<sub>2</sub>O<sub>3</sub>-depleted region near the aperture surface. The particles are then fused to form a fluorine-containing dense glass tube.

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IPC 8 full level

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DOCDB simple family (application)

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